UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

	<del></del>			
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/510,386	10/04/2004	Jens Tonne Andersen	10294.204-US	9551
25908 7590 10/05/2007 NOVOZYMES NORTH AMERICA, INC.			EXAMINER	
500 FIFTH AVENUE			VOGEL, NANCY S	
SUITE 1600 NEW YORK,	NY 10110		ART UNIT	PAPER NUMBER
·			1636	
			MAIL DATE	DELIVERY MODE
			10/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

. (	Application No.	Applicant(s)			
	10/510,386	ANDERSEN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Nancy T. Vogel	1636			
The MAILING DATE of this communication appeariod for Reply	pears on the cover sheet wit	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.4 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 136(a). In no event, however, may a re- will apply and will expire SIX (6) MONT e, cause the application to become ABA	CATION.  sply be timely filed  IHS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).			
Status					
1) ☐ Responsive to communication(s) filed on  2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This  3) ☐ Since this application is in condition for alloware closed in accordance with the practice under the practice under the practice.	s action is non-final. ance except for formal matte				
Disposition of Claims					
4)  Claim(s) 23-42 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5)  Claim(s) is/are allowed. 6)  Claim(s) 23-42 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/or	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to be drawing(s) be held in abeyan ction is required if the drawing(	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/4/04.	Paper No(s	dummary (PTO-413) s)/Mail Date nformal Patent Application			

Application/Control Number: 10/510,386 Page 2

Art Unit: 1636

### **DETAILED ACTION**

Claims 23-42 are pending in the case.

Receipt of the Information Disclosure Statement on 10/4/04 is acknowledged.

### Election/Restrictions

Applicant's election with traverse of the polypeptide shown in SEQ ID NO:134, in the reply filed on 2/26/07 is acknowledged. The traversal is on the ground(s) that a search of all of the groups would not be an undue burden. This is not found persuasive because it is maintained that a search of more than one sequences would be a burden, since there is apparently no overlap in subject matter between each sequence, and no shared structural features or function. Furthermore the automated search of multiple amino acid or nucleic sequences requires burdensome database searches which would unduly tax the systems of the search facility.

The requirement is still deemed proper and is therefore made FINAL.

Claimed subject matter other than that limited to SEQ ID NO: 134, is withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 2/26/07.

# Claim Objections

Application/Control Number: 10/510,386

Art Unit: 1636

 $\mathcal{F}_{i}$ 

, c .

Claims 23, 24, 26-42 are objected to because of the following informalities: the claims contain subject matter that was non-elected, i.e. those sequences shown in SEQ ID NO:2-133, 135-248. Appropriate correction is required.\

## Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The rejection is based on the Guidelines for the Examination of Patent

Applications under the 35 U.S.C. 112, first paragraph "Written Description published in the Federal Register (Volume 66, Number 4, Pages 1099-1111).

Claim 23 is drawn to a B. licheniformis mutant strain which is mutated in a gene encoding a secreted protein having at least 80% sequence identity to SEQ ID NO:134, and which secretes at least 5% less of the secreted polypeptide than the parent host cell. Claims 23-42 are genus claims in terms of strains comprising any mutations in any gene encoding any secreted polypeptide having at least 80% sequence identity to SEQ ID NO:134, and which result in at least 5% less of the secreted polypeptide. The disclosure is not deemed to be descriptive of the complete structure of a representative number of species encompassed by the claims as on of skill in the art cannot envision all the mutations in the gene encoding SEQ ID NO:134 which result in 5% less secretion of the resultant polypeptide, and further, cannot envision all of the genes encoding polypeptides which are at least 80% homologous to SEQ ID NO:134 and which are

Application/Control Number: 10/510,386 Page 4

Art Unit: 1636

secreted polypeptides in B. licheniformis. While the specification provides guidance regarding the polypeptide of SEQ ID NO:134 and the gene encoding said polypeptide, there is no disclosure of related polypeptides or genes encoding them. Further, there is disclosed only deletions of the gene encoding SEQ ID NO:134, which would result in at least 5% less of the secreted polypeptide. Furthermore, there is no structure-function analysis of the disclosed polypeptide shown in SEQ ID NO:134 to provide guidance on the essential regions of the protein that could be modified and retain function as a secreted polypeptide. Therefore, the specification does not describe the claimed B. licheniformis mutant host cells in such full, clear, concise and exact terms so as to indicate that Applicant has possession of the method at the time of filing the present application. Thus, the written description requirement has not been satisfied.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nancy T. Vogel whose telephone number is (571) 272-0780. The examiner can normally be reached on 7:00 - 3:30, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach can be reached on (571) 272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/510,386 Page 5

Art Unit: 1636

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

NTV 9/28/07

PRIMARY EXAMINER